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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/727,183	12/03/2003	Miroslav Cina	13913-127001 / 2003P00384	5201
32864 7590 09/18/2007 FISH & RICHARDSON, P.C. PO BOX 1022 MINNEAPOLIS, MN 55440-1022			EXAMINER TRUONG, CAM Y T	
			ART UNIT 2162	PAPER NUMBER
			MAIL DATE 09/18/2007	DELIVERY MODE PAPER

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The time period for reply, if any, is set in the attached communication.

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2003P00384

12/3/2003

CINA, MIROSLAV

13913-127001 /

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ART UNIT	PAPER
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Commissioner for Patents

On 9/10/2007, Examiner sent a proposed amendment (amending claims 1, 9 and 26 and cancel other independent claims) to Attorney Rex I. Huang.

Examiner has been waiting applicant's response . Applicant should response within one month period.

The amendment is indicated below.

1. (Currently amended) A method of scheduling access to a database by multiple processes, comprising:
locking a record in the database at multiple levels when multiple processes running in parallel attempt to access the record and the lock level having a preset value is assigned to a particular process;
assigning a lock level with each process of the multiple processes, each process having a different lock level, a higher lock level representing a larger number of other processes having priority over a particular process in accessing the database, each process of the processes being assigned with no more than one lock level;
repeatedly attempting to connect the particular process with a lower lock level, and if the particular process has been successfully connected with the lower lock level, wherein the repeatedly attempting to assign includes calling multiple instances of the procedure that assigns a lock level with a process, each instance of the procedure connected with a process of the multiple processes and to assign a different lock level with the process until the process is granted;
releasing a previous lock level connected with the particular process so that the previous lock level is available to be assigned to other processes, ;
storing in a queue information indicating which each process is assigned with each different lock level;
allowing the particular process to access the database when the lock level for the particular process is equal to a preset value;
allowing processes to read the record but not modify the record when the lock levels for the processes are different from the preset value;
updating the information that indicates the different lock levels are assigned to different processes of multiple processes.

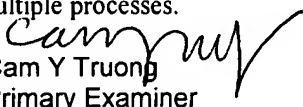
9. (Currently amended) A system for scheduling access to a database by multiple processes, comprising:
a database to store records;

a programmable processor to execute procedures to:

lock a record in the database at multiple levels when multiple processes running in parallel attempt to access the record and the lock level having a preset value is assigned to a particular process;
assign a lock level with each process of the multiple processes, each process having a different lock level, a higher lock level representing a larger number of other processes having priority over a particular process in accessing the database, each process of the processes being assigned with no more than one lock level; repeatedly attempting to connect the particular process with a lower lock level, and if the particular process has been successfully connected with the lower lock level, wherein the repeatedly attempting to assign includes calling multiple instances of the procedure that assigns a lock level with a process, each instance of the procedure connected with a process of the multiple processes and to assign a different lock level with the process until the process is granted;
release a previous lock level connected with the particular process so that the previous lock level is available to be assigned to other processes ;
store in a queue information indicating each process is assigned with each different lock level;
allow the particular process to access the database when the lock level for the particular process is equal to a preset value;
allow processes to read the record but not modify the record when the lock levels for the processes are different from the preset value;
update the information that indicates the different lock levels are assigned to different processes of multiple processes.

26. (Currently amended) A computer program product, tangibly stored on a machine-readable medium, for scheduling access to a database by multiple processes, comprising instructions operable to cause one or more programmable processors to:

lock a record in the database at multiple levels when multiple processes running in parallel attempt to access the record and the lock level having a preset value is assigned to a particular process;
assign a lock level with each process of the multiple processes, each process having a different lock level, a higher lock level representing a larger number of other processes having priority over a particular process in accessing the database, each process of the processes being assigned with no more than one lock level;
repeatedly attempt to connect the particular process with a lower lock level, and if the particular process has been successfully connected with the lower lock level, wherein the repeatedly attempting to assign includes calling multiple instances of the procedure that assigns a lock level with a process, each instance of the procedure connected with a process of the multiple processes and to assign a different lock level with the process until the process is granted;
release a previous lock level connected with the particular process so that the previous lock level is available to be assigned to other processes ;
store in a queue information indicating each process is assigned with each different lock level;
allow the particular process to access the database when the lock level for the particular process is equal to a preset value;
allow processes to read the record but not modify the record when the lock levels for the processes are different from the preset value;
update the information that indicates the different lock levels are assigned to different processes of multiple processes.


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Art Unit: 2162